

## ABSTRACT

The invention discloses a treatment apparatus for the excrement and a bio- toilet using the treatment apparatus. The treatment apparatus includes a tank, a reactor basin in the tank for containing the raw material and the excrement and having at least two parallel, 5 concave parts having curved profile in the bottom part of the tank, a temperature control means for maintaining the temperature of the basin at a predetermined range; and at least two mixing devices which match with the at least two concave parts, each of them can rotate around a rotation shaft, the helical blade stirrer secured to the rotation shaft by a plurality of spokes. The bio-toilet is waterless, and thus a large quantity of water can be 10 saved and the pollution of the environment due to the drainage of sewage can be avoided. Furthermore, treated by the treatment apparatus of the present invention , the microorganisms and the organic materials are combined and converted into stable loosen soil and the organic components. The load applied to the environment will be decreased and the environmental protection will be most effective by using the bio-toilet of the 15 present invention.